

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES ADDING EAST- AND WESTBOUND PRESENCE DETECTION ALONG MD 108 TO THE TRAFFIC CONTROL SIGNAL AT MD 108 AND SNOWDEN RIVER PARKWAY IN HOWARD COUNTY. DUE TO THE GREATER VOLUME OF TRAFFIC TRAVELING ALONG SNOWDEN RIVER PARKWAY, THE MAINLINE OPERATION WILL BE CHANGED FROM MD 108 TO SNOWDEN RIVER PARKWAY. SNOWDEN RIVER PARKWAY IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT-TURN PHASING FOR NORTH- AND SOUTHBOUND TRAFFIC. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE EAST- AND WESTBOUND MOVEMENTS.

CONTROLLER REQUIREMENTS

THE EXISTING CONTROLLER, SETBACK LOOPS ALONG SNOWDEN RIVER PARKWAY, AMPLIFIERS, AND ASSOCIATED HARNESSES WILL REMAIN. VIDEO DETECTION WILL REPLACE ALL PRESENCE LOOP DETECTORS. THE SHA SIGNAL SHOP WILL INSTALL THE VIDEO INTERFACE EQUIPMENT IN THE EXISTING CONTROLLER.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon  
Assistant District Engineer - Traffic  
Phone: 301-624-8140

Mr. James Buckalew  
District Utility Engineer  
Phone: 301-624-8115

Mr. Dave Coyne  
Assistant District Engineer - Maintenance  
Phone: 301-624-8105

Mr. Edward Rodenhizer  
Chief, SHA Traffic Signal Shop  
Phone: 410-787-7650

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

The Power Company Representative Is:  
Mr. Nick Besser  
Baltimore Gas & Electric Company  
7317 Parkway Drive South  
Hanover, MD 21076  
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
5001	100 LF	5 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5004	25 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5005	40 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
8044	4 EA	VIDEO DETECTION CAMERA
8045	1 EA	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8046	3 EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8053	3 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8058	450 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)

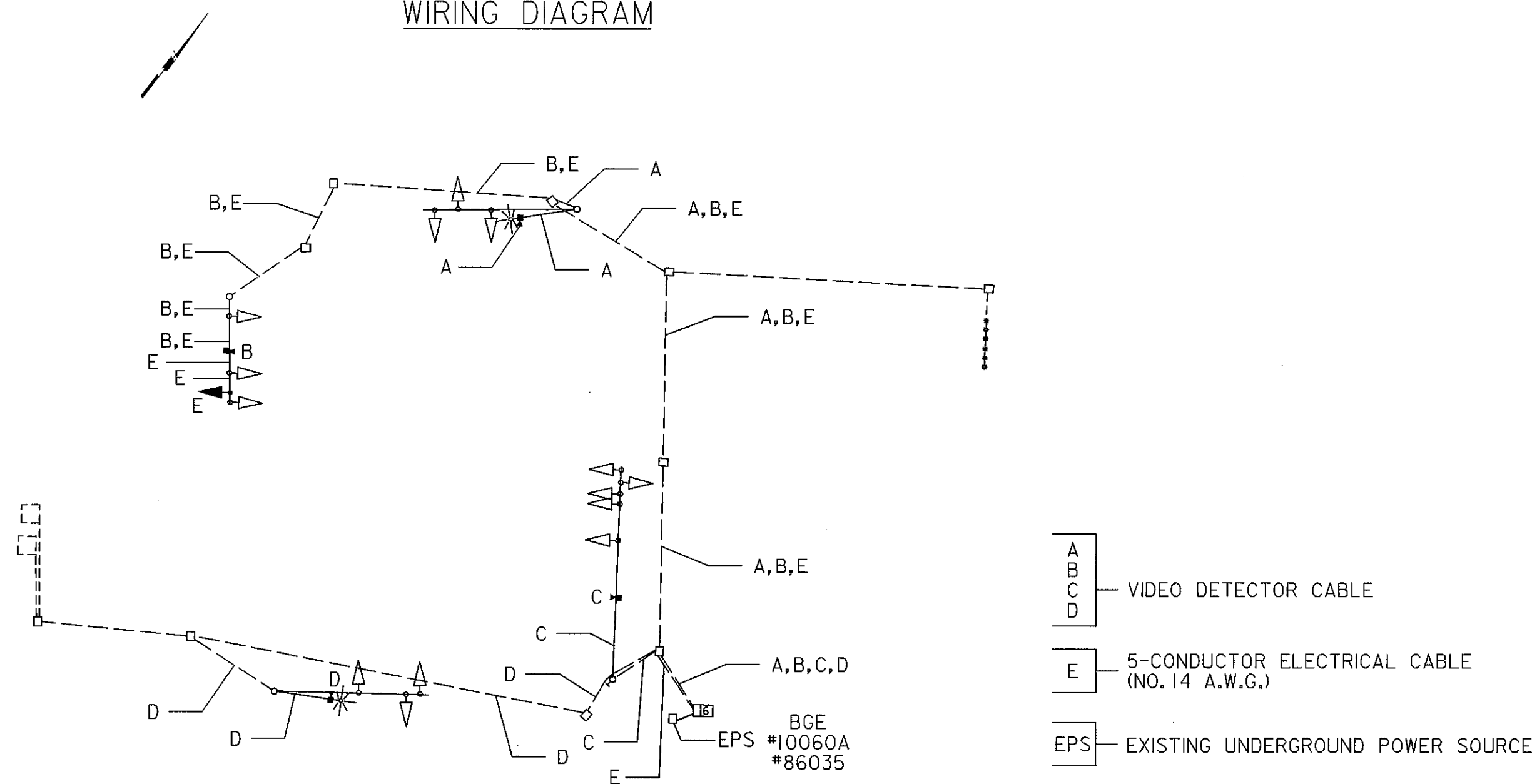
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO. QUANTITY DESCRIPTION

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
PHASE 1 + 5	←G←	←G←	←G←	R	R	←G←	←G←	R	R	R	R	R	R	R	R	
PHASE 1 + 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 2 + 5, 1 + 6 OR 2 + 6															
PHASE 1 + 6	←G←	←G←	←G←	G	G	←R←	←R←	R	R	R	R	R	R	R	R	
PHASE 1 + 6 CHANGE	←Y←	←Y←	←Y←	Y	Y	←R←	←R←	R	R	R	R	R	R	R	R	
PHASE 2 + 5	←R←	←R←	←R←	R	R	←G←	←G←	G	G	R	R	R	R	R	R	
PHASE 2 + 5 CHANGE	←R←	←R←	←R←	R	R	←Y←	←Y←	Y	Y	R	R	R	R	R	R	
PHASE 2 + 6	←R←	←R←	←R←	G	G	←R←	←R←	G	G	R	R	R	R	R	R	
PHASE 2 + 6 CHANGE	←R←	←R←	←R←	Y	Y	←R←	←R←	Y	Y	R	R	R	R	R	R	
PHASE 3 + 7	←R←	←R←	←R←	R	R	←R←	←R←	R	R	R	R	R	R	R	R	
	THE CONTROLLER MAY SKIP TO PHASE 3 + 8, 4 + 7 OR 4 + 8															
PHASE 3 + 8	←R←	←R←	←R←	R	R	←R←	←R←	R	R	R	R	G	←G←	←G←	R	
PHASE 3 + 8 CHANGE	←R←	←R←	←R←	R	R	←R←	←R←	R	R	R	R	Y	←Y←	←Y←	R	
PHASE 4 + 7	←R←	←R←	←R←	R	R	←R←	←R←	R	R	←G←	←G←	R	R	R	G	
PHASE 4 + 7 CHANGE	←R←	←R←	←R←	R	R	←R←	←R←	R	R	←Y←	←Y←	R	R	R	Y	
PHASE 4 + 8	←R←	←R←	←R←	R	R	←R←	←R←	R	R	G	G	G	G	G	G	
PHASE 4 + 8 CHANGE	←R←	←R←	←R←	R	R	←R←	←R←	R	R	Y	Y	Y	Y	Y	Y	
FLASHING OPERATION	FL/RA	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 108 AT SNOWDEN RIVER PARKWAY  
GENERAL INFORMATION



STV Incorporated

engineers/architects/planners/scientists/construction managers  
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

DRAWN BY: R. KIPP	F.A.P. NO. HO-661-504-770	SEE TITLE SHEET	TS NO. TS 3581B	SHEET NO.
CHECKED BY: B. BIDDLE	S.H.A. NO.	HOWARD	T.I.M.S. NO. F829	2 OF 2
SCALE: NONE	COUNTY:	LOG MILE:		
DATE: MARCH 2004				